



SEQUENCE LISTING

<110> OMNISCIENCE PHARMACEUTICALS
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<120> GENE CLONING

<130> 1002.00011

<140> 10/049,994

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<151> 2000-08-18

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<170> PatentIn version 3.0

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Gly Cys Thr Ala
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Thr Gly Thr Ala
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Cys Cys Gly Ala Cys Arg Cys Thr Tyr Gly Cys Lys Gly Ala Cys Gly
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Thr Ala Cys Ala
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Gly Gly Thr Ala
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Thr Gly Cys Thr Ser Gly Thr Ser Gly Gly Ser Gly Ala Arg Gly Ala
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Gly Cys Thr Gly Ala
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Thr Cys Ser Ala Cys Tyr Thr Thr Gly Cys Cys Arg Thr Thr Gly Ala
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Cys Arg Thr Thr Gly Ala
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Thr Cys Gly Thr Cys Ala
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Cys Gly Cys Cys Gly Gly Ser Ala Cys Cys Ala Thr Ser Ala Tyr Cys
1 5 10 15

Cys Gly Gly Ala Thr Ser Ala
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Gly Ala Thr Cys Gly Cys Gly Thr Gly Cys Gly Cys Ala Ala Gly Ala
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Ala Ala Thr

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Arg Gly Ala Thr Cys Gly
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Cys Met Met Met Ala Cys Ala Gly
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Arg Cys Cys Lys
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Cys Gly Met Trp Gly Ala Thr
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Gly Ala Lys Gly Thr
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Val Thr Cys Thr
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Gly Ala Thr Cys Ala
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Tyr Gly Thr Cys Ala Thr
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Ser Gly Ala Thr Gly Ala
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Cys Tyr Thr Cys Cys Ala Thr
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Thr Cys Thr Thr
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Gly Ala Cys Thr Thr
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Gly Ala Ala Ala
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Gly Gly Thr Thr
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Ala Gly Thr Ala
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Thr Thr Gly Ala
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Ser Gly Ala Ala
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Gly Cys Cys Ala
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Thr Gly Cys Thr
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Ala Arg Thr Thr
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Gly Gly Thr

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Cys Ala Ala

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Cys Cys Ala

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Thr Gly Thr Thr
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Ala Cys Ala

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Gly Gly Ala Ala
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Gly Gly Ala Cys Thr
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Gly Thr Cys Cys Ala
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Thr Cys Ala

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1 5 10 15

Thr Thr Cys Ala
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Ala Thr Gly Ala Thr Gly Thr Gly Gly Gly Thr Tyr Thr Gly Ser Thr
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Cys Ser Ala Gly Ala
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1 5 10 15

Thr Thr Cys Ala Thr
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Ala Thr Gly Ala Thr
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Ala Ala Cys Ala Thr
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caagggaacg aggcagggtc ttatcttaag gctgatctcc gagaagcatt ggggaccagc 180
aggatctggg cgcggccctg tcggaggctg gggttgaggt ggcccaggcg accgtgagtc 240
gggaccttgc gagctcgggg tcctaaaggt cggtaacgcg tatctccggc 290

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ccgacgcttg ctgacgtaca ggcggaatgc agaacttcca cggggggcatt aaaacgttca 60
cgaaaacggg cgatagtttg cgggtgcagg ccgatttccg gcaccatcac cagcgctgt 120
ttgccctgag cgagcacgtt ttccagtacg ctgagataaa cctccgtttt acgtaaccac 180
gcccgatgat cacgaattct ggatccgata cgtaacgcgt ctgcagcatg cgtgggtaccg 240
agctttccct atagtgagtc gtataga 267

<210> 91
<211> 274
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(274)
<223> probe

<400> 91

catctgggggt ggttacggta caggcaactt cagccatct gccgagttca acatctcttg 60
 ccgacccaga agccgcacgc gtagtggtca cctccggcgt tccattagtg atgatgggcc 120
 tcgatctcac aaccagaccg tttgcacccg gacgtgattg ctccgatgga aaggcaggcg 180
 gcccgccgga gagctgttca gcgacatcat gaacttcact ctcaaaacgc agtcgaaaac 240
 tacggccttg ctggcggccg gtgcacgacg ccac 274

<210> 92
 <211> 293
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(293)
 <223> probe

<400> 92
 ccgacgctcg cggacgtaca tgacaaacct ttatttcaag attaaagaag ataagcgcaa 60
 ggctgcgaga ggtgaataat gcctccatca cttacgcaaa agccgcttgc tgctgctcat 120
 tggtaggcgcg acgcaattgc tcatagcact cacgtgttaa tcaactcgcc caatggtaac 180
 cgatgggtccc tggaagatgt ccagccctac cataccatca ccaaagatat tgttggtgta 240
 tggcactgta tgctcaccgg acacaccgga aaagaccatc attgctccgg taa 293

<210> 93
 <211> 95
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(95)
 <223> probe

<400> 93
 gaggcgatat cattttctac aggaatacgc accaaagact caatcagatt gcgtccaaca 60
 agaccggcat tgcacggggg gtgggttacgg tattu 95

<210> 94
 <211> 105
 <212> DNA
 <213> artificial sequence

<220>

<221> misc_feature
<222> (1)..(105)
<223> probe

<400> 94
catcgggggt ggttacggta taaactgcgg cttcttcttt ttcttctttc ttcttggtac 60
acgctgtaaa caacagaaga ctgcttagcg caatacttgc gacaa 105

<210> 95
<211> 270
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(270)
<223> probe

<400> 95
ccgacgctcg cggacgtaca tcttcaagcg tccatcgctc ggcatggtga tgtggatctg 60
gatcagcgtg atgaaccgc atacgcaagg gtggggcttc gcgcgcgaag cgttcgccgc 120
catcatcgcg gtgacgacgg tcgccgccat ggccacgaac gcgtaccgga ataccgtaac 180
caccgccgat gatcacgaat tctggatccg atacgtaacg cgtctgcage atgcgtggta 240
cgagctttcc tatagtgagt cgtatagagg 270

<210> 96
<211> 126
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(126)
<223> probe

<400> 96
gatcgcgctg gcaagaaatc tgcgcgcctt gccagggtcg agttgtcggc tggtagtaca 60
cagatctgac ccctgaaggc tatgccgtcg agtccgagtc tcaccccggc tcagtacaga 120
tttatc 126

<210> 97
<211> 127
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(127)
<223> probe

<400> 97
gataaatatg cactgagccg gggtagagact cggactcgac ggcatagcct tcaggggtca      60
gatttgtgca gtaccagccg acaactcgac cctgccaggc ggcgccagat ttcttgcgca      120
cgcgatc                                          127

<210> 98
<211> 127
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(127)
<223> probe

<400> 98
gataaatctg tactgagcct ggatgcgact cggactcgac ggcatagcct tcaggggtca      60
gttttgtgca gtaccagccg acaactcgac cctgccaggc ggcgccagat ttcttgcgca      120
cgcgatc                                          127

<210> 99
<211> 275
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(275)
<223> probe

<400> 99
cctttggcta tttcggcttc catctcgacg acagtgaagt tctccctgta gaagaagtcg      60
aggtaccctt cgttctgaag aaatgtccct ttgaccgtgg accgcctttt ggttatcgag      120
cgcggcgcca taatccgagg gtatgggggc gaggtcggca taggctggaa cgcatttcgg      180
aaccaggtag gtgggttccc gggagggtgg ctcggtcata ggacaacgtc cgaggatcat      240
tcacgtcgcc caatgggcgg cccggttggg gccgt                                           275

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<210> 100
<211> 286
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(286)
<223> probe

<400> 100
ccttttgcta ttteggcttc catcgtggcc tccttgctg tcatccactt cttcaacaga 60
gatatttgag aaatcagaaa tttctgtctt taaaggagat gtctggctgc gggaaccgat 120
catctgtagc tgtgttctta taatattctg aatttttgca cgcttgtttc ttctgctttt 180
ttttctaaag ataccagaat agcaaccaaa ggcagcaagc agtacaacaa ctgccgtttg 240
gcgccgcata tctgaattcg tcgacaagct tcttgagcct aggcta 286

<210> 101
<211> 272
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(272)
<223> probe

<400> 101
ccttttgcta ttteggcttc catgccgtca tgacaccctc ctggtgttcg tacaattttt 60
cttttatcac ctttgcgccc tgttcttctt ctacaccgtc aacggactta ctaccatcgg 120
taaatggccg cggcgatatca tttcgccct cttattttctc aacctgcca tcctttatct 180
caggtaacta tatcaccagg tgacgtctat ttcacgcca tgaagggccc acgatctgaa 240
ttcgtcgaca aggcttctcg agcctagggc ta 272

<210> 102
<211> 101
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(101)
<223> probe

<400> 102
cgatggcctc tttgctgtc atttttcgat cactaccacc gggcgtgcc a gtcgtattgc 60
cagcgctgt gccgtctcgc cttgtgtcta atcaataaaa c 101

<210> 103
<211> 262
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(262)
<223> probe

<400> 103
cgttggccct tcatggcgat gatgtcagca ccacgcctgt cgcggcgctc aaaagatagc 60
tgtggccgag catgacggga aacatgctgc gatcctgtgc gacacggcgg atcagcgatt 120
cctgcgaacc gataccgcag atctggacgc caagattggt gacggccgta tggaggcgta 180
aagcggaat tgttcgacac cgagatgacg ggcaaggagg ccatcatcgc catgaagagc 240
cacgatcacg aattctggat cg 262

<210> 104
<211> 287
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(287)
<223> probe

<400> 104
cgttggctct tcatggggat gatggtcagc accacgcctg tcgcggcgct caaaagatag 60
ctgtggccga gcatgacggg aaacatgctg cgatcctgtg cgacacggcg gatcagcgat 120
tcctgcgaac cgataccgca gatctggacg ccaagattgg tgacggccgt attgaggccg 180
aaatagccaa aggatctgaa ttcgtcgaca aggcttctcg aggcctaggc tagggctcta 240
ggaccacacg tgggtgggggg ccagctcgc ggcgcaaat tcaactgc 287

<210> 105
<211> 290
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(290)
<223> probe

<400> 105
cgttggctct tcatggggat gatctgccgg cctgaggggc tgcgcgcacg gaggaaagat 60
aaggctcgta ggtcatggcc gcgtcgttct ggccggcgat gaaggcctga gcggcaggac 120
ccggctccat gttgacgacg gtcacgtcct tcacggagag accgttcttc ttcagcatcc 180
aggagagggc gaaatagggc gacgtgccgg gcgcggaggg cgccacctgc tggcccttga 240
tgtccttgat ggaggccgag atagccaaag gatctgaatt cgtcgacaag 290

<210> 106
<211> 285
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(285)
<223> probe

<400> 106
ttgctggcgc cgtcctgggt ggttgacat tgccattacc cattacgatg gtaatcatca 60
ccgcgatagc gcaaattgca ccgcctcctg cggctgtttt tcccttcata aagacctcat 120
aagcgaattt ttacgctcca ggacaaacac ccattcacag ccaataccga ctgactcatc 180
cctttagaag acacaggata atgcaaatca cttgttagct acgtttcaag atatacatta 240
ttgctctaatt taattatatt tattagggat agatagggtg accat 285

<210> 107
<211> 271
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(271)
<223> probe

<400> 107
ttgctcgcgc cgtcctgggt tgcgagacgc aggaggcaag tcgcagtacc agtcgtagaa 60
gcttaagcaa gtaccgcaa tcagcgagag atagcgtgca cccgatgcgt aagaaaccat 120

cgacattgcc ggaattggcg agaaccagca acacgggtccg ggccgctagt ttttgatggt 180
gtaacgtag atgcggcgat cagttcggtc acctcctgcc aggagaacga acaatccacc 240
gccgtcacgc gcctgcttaa ggctttgcgc t 271

<210> 108
<211> 269
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(269)
<223> probe

<400> 108
aaggagaccg aagaggaaca tgggctggaa gaagatggaa aagccaaaag gaacctttta 60
cgtatgtggc gtgtagaatt ccgagaaacg tttgagaaca tctcaccaat tctccgatta 120
cttgctggag catgctcatg tcgttgtcac accgggcgaa aatattcgga agcacggaaa 180
aaggcatgtc agaatatcga tgggtgtcga gcaggaggat ctgcgggaat ttgtcatgcg 240
gattcaaagc tgaacctgct cgtggtgcg 269

<210> 109
<211> 281
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(281)
<223> probe

<400> 109
tgaaggagac cgcaggagga acacggaaat aagaactgat gtgctcgcag gaaataaaga 60
cacagggaaa tatgatcata gatactcaaa cattccttaa ctataggag cagagcgagg 120
cattaaaggc ctggcagaaa tcaaataccta aggaagggtga atcattacca actatttcaa 180
caatatcaga attgaataag aaaaaatata ttttgagaaa ttgccacaaa aagctgtcta 240
ttttggacag cttttataaa ctactgaact gctagtgggtg c 281

<210> 110
<211> 457
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(457)
<223> probe

<400> 110
ttgcgcacga cgatggagaa ctgatttcgc tgtcctcgat ccggcagtc tgggagacgg      60
acgtgaacgg accgatgtag gcgtcgttga ccaccgtgcc ggcaccgatg atggcaggcc      120
cgacgatgcg gctgcacact gacgctggcg ccgcctcgac ccggaccggg ccgatgatct      180
cgctgctctc gtcgaccgtg ccctcgacca ccggctccga cggctctcca aggaccgacc      240
ggtggacctc caagcatgtc gggtaacgtt gccggtgtcc ttccaggtag ccgagagaaa      300
ggtccgttgg aggcgaacgt acacggctgg ctgggtcaat acagcacact gtgaatggcg      360
tgggtgggtga aaattctatc aggctcggcc ggcgcacaga gaccggctca tatatagacg      420
caggacggcg ctcttgggtga attgccggtg ataaaaa                                457

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<210> 111
<211> 302
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(302)
<223> probe

<400> 111
caaagcgga gcatgcgga tgttgccggc aaaagtcgcg gccttagcgg cgcaacaggc      60
tgctgatgaa aatgatcgaa tggcgtcgag gaccaggggtg gcgtactggt cggataggat      120
cgggctcgag gtggcgtacc ctataacttt cccgaggaat cgcttgacg ggatcatcgt      180
aattgggtac aagttccagg aacttgacca gagttctggc tggcggacct aggtggatgg      240
tctaggacgc ggctccatgc cgatagggtg agggcgtgga tggcacaacg gccgaaggtc      300
ag                                                                302

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<210> 112
<211> 268
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature

```

<222> (1)..(268)
<223> probe

<400> 112
tgcgcacgac gatggagaaa gccggctata tggacgaaga tttcttccta tatgccgaag 60
aagtggagtg gtgcagccgt ttacgtaagc tgggcgaatt agcgatcttt ggagacatca 120
acattattca ccttcagggt gagaccaccg gagacgcctt tgactcagcc gataaggcta 180
ctacggcctg tatgaccgta aaggcctcca gctcatgtta tccaatcatg tcagggtcag 240
aaacaattcg gggcacgctg gtacttat 268

<210> 113
<211> 276
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(276)
<223> probe

<400> 113
tcgcgcacga cgatggagaa ttgggtatcg tgaaggtata attgaggagg agtataaagt 60
accagcgtgc cccgaattgt ttctgaccc tgacatgatt ggataacatg agctggaggc 120
ctttacggtc atacagggcc gtagtgagcc ttatcggcgt gagtcaaagg gcgtctccgg 180
gtgggtgctc acccgggggg tgagtgatgg tggatgtgcg ccaaagagtt cgggctaatt 240
gggggcagcg ttacggtgga acgggctgcg aggcac 276

<210> 114
<211> 281
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(281)
<223> probe

<400> 114
cgtcgtttga gcggacatgc gctaaaggca gtgaaattat ccgcctgggt gaagaaagcg 60
atccggtagc ggaactggca ttgcgtcgct acgagctgcg gctggcaaaa tcgctggcac 120
atgtcgtgaa tattctcgat ccggatgtga ttgtcctggg gggcgggatg agcaatgtag 180

accgtttata tcaaacgggtt gggcagttga ttaacaattt ggtcttcggc ggcgatgtga 240
acgccggtgc gtaggcgacg acgggtgaat cacgagttct g 281

<210> 115
<211> 286
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(286)
<223> probe

<400> 115
gcttgccgggt ggagatgata ttggcctcgg ggatcggtca tcgccaggat caccggcctt 60
ggacgtcgggt tcatttccag gctctggcca ggaacatctg ggtcttcggc gtcggcgaac 120
aggatgcggc ggcctcggcg gtattgcgt cgacatcacc gggtcggagt cggggctgac 180
caggcgatag cctttggcac ttcaggtggg tctaggcggc cgggccggtg gcggggccatg 240
cccatgatca ggatctgcgc atgccacgacg accaccgggt gctcgt 286

<210> 116
<211> 262
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(262)
<223> probe

<400> 116
cgcagcacga tggagaagtg tggaacgtct gctctacaat gcctttacgg gcatcgatca 60
ggatcaggga aacctgcgca ttggaagcac cggttaccat gttacgggta tattcgatgt 120
gacctggtgt atctgcaata atgtatttac ggctgggggt ggaaagtaga tatggccaca 180
tcaatgggtga tacctgttca cgttcagcca caaggccgct tgtcagcaat gacaggtctg 240
taaaatcaag tcctttgcgt tg 262

<210> 117
<211> 279
<212> DNA
<213> artificial sequence

<220>

<221> misc_feature
<222> (1)..(279)
<223> probe

<400> 117
cgcgcacgac gatggagaat cgatcgggtc cgccttcaac gatctgttga ttggcagcac 60
agtctcgaac cggctcgaag gtgggaacgg caatgacacc ttccgcggca cgcgagcag 120
acgtattgat cgggtggtgac ggcacgggcg acacggcaga ctattcagcg tcctcggccg 180
gcatcctggt cacgttgact gccatctcca acggagcaac agacaggggtg ccgggggggg 240
accgaactta gagtgttcta atgcgagcta gagccatgt 279

<210> 118
<211> 288
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(288)
<223> probe

<400> 118
tcggtcggga cgtgctccac acgcgagcaa caactaccag gacaagcacc aggccctgtc 60
ccgctatgcg aacgtgatga cgtgcagccg caccaagggtg ccctggcgcc cgggcccgcg 120
ctacaacagc agcgaaccga agatctacgg cttgcagacc gccacgtggt cggccccggcg 180
gcgaggaaat ctacaccgac gaatatggcc ggggtgcgct gcagttccac tgggaccggg 240
agggcgcgaa cgacgagcgc agggtcagcc tggataccgc gtccgcac 288

<210> 119
<211> 289
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(289)
<223> probe

<400> 119
ccgcgttcgt gcggaccaac tggcgatata gaacgggcca gggcaggccg ttggctgcga 60
aaatagggcc tggctctatc ggccgggtgg atctccaggg tgccgcatcct gatgaggctg 120
agagttggca gggtagcccg gctgcgacca ggcaggggtga ccgggtcggc gagcatttcc 180

attgatacag ttgctctggt gagcagggct tttccagggt cgtcctgcgt ccagggtgtcc 240
gacgggtgat gggatggagc cagctgggaa ggactgggtga gccactctg 289

<210> 120
<211> 298
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(298)
<223> probe

<400> 120
catggataac gcctggcagg gaacacctac tgtccaacgt cggctctgttc cgaaggggtgg 60
tgtcaatcag gtgggtggat cagagtgggc tacaagggtcc ttccagctgg ggtcatccca 120
ttaccgggtc ggacactggg agcaggacga cctggaaaag ccctgctaca ggagcaactg 180
tgatcaatgg acatgcttgg ctgaccggtc accctggctg ggtcgagccg gctacctgcc 240
aatctcagcc tcatcaggag tgcgacctgg gagatcaagg cggccatagg acaggcca 298

<210> 121
<211> 296
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(296)
<223> probe

<400> 121
cactacgtcc gcgacctcc tgaagtcggc agcaatcttt tccagccgc ccagcgacat 60
ttcattttgc tgcgcgatat aggcgtcata cagagccatt tgctcgttgt atttcgctat 120
ctgtgcatct gttggttcat ccggtaactc tttcggcggg tttaaccgct ttcagtttct 180
tacggtttta cctgcctcgg caaaccgtct gagcattcag gatccccacc tttgaagggt 240
caaggttaag gggcattgca gataatgcgc ttgagcttct ggtgctgcgt ttttta 296

<210> 122
<211> 300
<212> DNA
<213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(300)
 <223> probe

<400> 122
 cggtgttcgt gcggaccaaa aggaacgaat ttcagacatc agcacccaac tgaacgcctt 60
 tcccggctgt gaagttgctg tcagcgacgc gccgagcggc ccagttgatt gtggtggtgg 120
 aagcagaaga cagcgaaacg ctgatccaaa ccattgagtc agtacgcaag tagagggcgt 180
 gctggcgggtg tcgctggggtt atcaccagca ggaagagcaa ggtgaggaaa caccatgaaa 240
 ctcagtcgtc gtagctttat gaagctacgc cgttgcggcg ctgcggcgcg tgccggtctc 300

<210> 123
 <211> 271
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(271)
 <223> probe

<400> 123
 cgggtccggga cgtgctccag acgctgcgcg accgcgaata tgtgaagacc gaaaagaagc 60
 ggctcgtccc cgaggacaaa ggccggatcg tcaccgcctt cctggagagc ttcttccgcc 120
 gctacgtgga atacgacttc acggcggatc tggaggagca gctcgaccgc atctccaatt 180
 ccgagatcga ctgggaagca ggtgcttcgc gattttctggc gcgacttctc ggcagccatc 240
 ggcgagacga agagctgccg caccgcggag t 271

<210> 124
 <211> 256
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(256)
 <223> probe

<400> 124
 cggtcgtgga cgtgctccag gcgacctcgt ccaggctgag gctgatttca tcgagccagg 60
 cgagatagca gttgaggctg tcgggtgtagg tggcgatcgt gccacccgac gccccagct 120

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ccgtggggcca gggcatcgag ccagaggtgg gctaatacgct gattgggtccc acgaagacca    180
gcgttcgtgc ggaccaacag gggccgtact cctgtattct ttcagaagga tctggggaag    240
actcgaactt gctgga                                                    256

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<210> 125
<211> 282
<212> DNA
<213> artificial sequence

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```

<220>
<221> misc_feature
<222> (1)..(282)
<223> probe

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```

<400> 125
ccagaattcg tgatcggtgt tcgtcggacc aatcccgtg atcacctcga cctcacgcat    60
aggatcggat caggtgctga tctcgcaaac ccttaggacc tgtcgtcaga gcgaagggga    120
gggggactgt tattccacca tctctgtgtc gaactcggcc agagtgtctc gcgctgtgat    180
cagatcctcc aggtcttctca atcgggcgat aaggcgatcc agccgcggtg tgagaaagat    240
caggtagcgg cttggttctc cgacctgtag tgatgcgcca gc                                282

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<210> 126
<211> 287
<212> DNA
<213> artificial sequence

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```

<220>
<221> misc_feature
<222> (1)..(287)
<223> probe

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```

<400> 126
cggtcgggga cgtgctccag gaaatgaact gatccttctc cggcttgccg cgggcctgct    60
gatagtagcg gatgaagcgc acgctggaat cgaccgcgtc cgatccgccc aggggtgaaat    120
agatgtggtt gagatcgcgc ggcgcccgtc cgggctagtg ccgaggcagg cggatgcccc    180
gctccgcgcc gaggccgaaa tagccggtcg cataaggcag ctcccgcata tggcggctgg    240
cggcttcac gagtgctggt catgggccgt agccgggcgt tgacgcg                                287

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<210> 127
<211> 413
<212> DNA
<213> artificial sequence

```

```

<220>
<221> misc_feature
<222> (1)..(413)
<223> probe

<400> 127
gcggttcggg ctccaaggaa acgttcagaa ggtcagctat atcggccggc gattctttgc      60
ttcgtaacctg cgcgacggcc gcaccgaagt aaggatgtac gatgaggcgc agagtctggg      120
cgtcgtaccc tgccgggtct cgggcgcgct gtcggttttg aaggacggaa acgagacgga      180
acgttctacg tattcacaag ctacacggtt ccctccgttg tttaccacta cgatttaaag      240
accacaagag cactcttggg agcaaccgaa ggtcgacgcg gatctacgaa atatgagacc      300
agcctcgtct tctacaacac aaagatggca cgcgcgtacc attgttcac accgcgcgca      360
aggatataag ctggacggaa cagaatcccc tttaccctat gatacggcgg atc              413

```

```

<210> 128
<211> 300
<212> DNA
<213> artificial sequence

```

```

<220>
<221> misc_feature
<222> (1)..(300)
<223> probe

<400> 128
gcggttcggg ttcgaaggaa gcaacttcca gcaggcggaa cgcctcatcc ctggcatcgc      60
atttcgctga tatcggtcaa ccgttcaacg cgcacgttgg taatttccaa cagaatgcgt      120
gatgcccatc gcggcatgtg aattgatgga cgccaccac catcaaactt tcattcacag      180
gtgtgagggt tccaggtcgg gcatcatcgg gtatcgacca taaggccgta atcaccaggg      240
tttttggtcg ggaactgggc cgaataaatc cttgctgcgg ttcttctcat ctgccacgac      300

```

```

<210> 129
<211> 290
<212> DNA
<213> artificial sequence

```

```

<220>
<221> misc_feature
<222> (1)..(290)
<223> probe

```

```

<400> 129
gcgttccggg ttcgaaggaa ggcttggact taatgagcaa ggagcggagg taatcgaaat      60
ggcaccatTTT ccaatcgaaa cgatactggg gaaagccggc gccctctctg tcttctctgtt    120
catcggagtc gcctttggat ggggtgttga gaacgccgga ttcggcaact caccaagctg      180
gcagcacagt tttatttcag agagatgacc gttctcaagg tcatgttcac ggccatcgtc      240
gtcgccatgg tcttgatatt cgcgacttca ggtctggggc ttctagacta                  290

```

```

<210> 130
<211> 264
<212> DNA
<213> artificial sequence

```

```

<220>
<221> misc_feature
<222> (1)..(264)
<223> probe

```

```

<400> 130
gcgttccggg ctccaaggaa tactgtctca tgaacaggat atgctgcgtc ttcgcatcat      60
gatctggcgc actcttgcga ccgacacctt tgacatcgct ctgccggtta accagtcctt    120
tgatgtatgg gcaaccatca ttcgtggcaa attccagact gtatatcgcg acattattag      180
cgcgttaaAT cttctgggtgc gatgggggatg tttgctggtg ctgatgcagc atctttcttc    240
aaacagttgc cgaaggattt cttc                                              264

```

```

<210> 131
<211> 273
<212> DNA
<213> artificial sequence

```

```

<220>
<221> misc_feature
<222> (1)..(273)
<223> probe

```

```

<400> 131
ggcggttccg ggatcgaagg aaccgttcag aaggtcagct atatcggccg gcgattcttt      60
gcttcgtacc tgcgcgacgg ccgcaccgaa gtaaggatgt acgatgaggc cggcaagagt    120
ctgggcgtcg tacctctgcc gggctctcggg cgcgctgtcg gttttgaagg agggaagacg      180
agacggaaac gttctacgta ttcacaaggc tacacggggtc cctccggtgg ttaccacta      240
cgagttaaag acccacagga gcactccttg gga                                  273

```

<210> 132
<211> 261
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(261)
<223> probe

<400> 132
cgtagagatg ggggtctctcc atgtgcccag gctgttatcg aactcctggg ctcaagtgat 60

ccttctgcct tgggtctccca aagtgctagg gttaaaagtg ctgggggttat aagtgtgagc 120

cactgcctct agcccagttt tttagttctt gttacaaatt gccaagtaag gactaatcca 180

aaagactgga gtattttgtc aatgaacatg tttcaacata tgtatctctt acaaaatgca 240

gctggtttaa atcctaaagg c 261

<210> 133
<211> 285
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(285)
<223> probe

<400> 133
cagcgcgga gtgggtgggt tattgctctg ttagctgtgc tggactggg tggagccggg 60

gtgttcttct acgtcaaggg gatgcccga tctcattcgg atgccgctcc tcaaccaacc 120

caggcaccaa tctctacctc tacgccagag gtcaggccaa cgcgaaactgt gacgctcatg 180

ccacggtgac aacgatgagt tctcccatc agatccagct tcctggcggg gcggtggagt 240

gtggacaagg ggccttgatc gcaaatactc gcaccacctg tctct 285

<210> 134
<211> 280
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(280)
<223> probe

<400> 134
gttcagcggg ttggcggtca gaagcagcgt ggctgggtgc cggatggtgc gatccacgcg 60
atcgccgatg tgctgggtat tccggcaagc gacgtcgaag gtgtggcacg ttctacagtc 120
agatcttccg ccagccggtt ggtcgccatg tgaatccgtt attgtgacaa gcgtgtctgt 180
catatcacgg tatacaggta atcggcgcg ctcgagaaaag ctgactcacc gggcacgaca 240
tttgataggc gcttaagctg ctgccactgc tgctgggact 280

<210> 135
<211> 271
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(271)
<223> probe

<400> 135
gttcagcggg ttgtcggtca tggccagacc agcagcgtat gtcctccag ggcttttgcg 60
atgggcacac cgcgggacat ggcttgcgtgc tcgcaagttt ccgcgtctct gtccggatcg 120
gcgcccgaag tgaccctga acagcgccga gtccttcagg ccgcctctc gcgaacatcg 180
ccgagcgata cgcccgtcca ttccgcgcac gcgacccgc cattgggtcca gggattgcct 240
ccgccttcgg ctccgaagaa cgagcggccg t 271

<210> 136
<211> 236
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(236)
<223> probe

<400> 136
gttcagcggg ttggcggtca gggattggtg catttgcctg cccttgcgtgc ctggaaccct 60
gaaaatcccg gtgactttgg cggtttgggc atgagcagtg acgagtcagc cattttctat 120
gcaatcggtta ttggcgatgg cagctgggga gcattttatg atgtttgctg cctgtacccc 180
tacgtacggc aatcttttggc tttagcagtc atttgcagtt ggtgcatggc cgtgtg 236

<210> 137
<211> 264
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(264)
<223> probe

<400> 137
tcccgggtccg gtggtcatga tccttcgccc tctgctcacg aaagatgctg tccgcccac 60
ggaagaactc actatttcgc ggttgtgttg gtgggatccc ccggagcccc catcgcgcg 120
gcgcatgagc tcattcgaga ggtgggcgac gagacttgag aggaaagcgc tggcgccggg 180
tgatggaagg cacacagtgc tcaacgcgga cgataccgat tgggccatct gtttcgtata 240
ggtccatgtg cttctcaact acat 264

<210> 138
<211> 301
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(301)
<223> probe

<400> 138
accgtgtcga aggcgtttaa catgccggtg gatgagttac agggaagtgc agagcgactg 60
aagaaacgcc tcgagaatat gggtgagatc aaccctaccg caattgaggc gtacctggaa 120
atgaagaaac gttacgaatt catacttgaa acagaaagac ggatcttgga tctggaattc 180
gttcggacaa agctttcttc ggagcctagg ctagcttcta gaccacaacg tgtggggggg 240
cccagctcc cggccgcaac aatttcacat tgggcccgtc tttttacaac gcttggtgtc 300
a 301

<210> 139
<211> 267
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(267)
<223> probe

<400> 139
 tcctggccccg gtcgtcatga tgttcacgtt attatgtagt ctgccggaca ccttattaca 60
 ggatgagtat cagcagaaga gtgtgaacta tcaggcgcggtg tgacatctgt gtggactaca 120
 gtcagcatac tgactgcgct gtgatggctc tacgatgctc gcgaaaaaca cccccatac 180
 catatccgag cgagcgtgat tataacaacg tgcttccgac aagcgagagc ctcgcgctct 240
 ggatagagat acatcgtgtc agattac 267

<210> 140
 <211> 293
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(293)
 <223> probe

<400> 140
 accctcgaag gcgttcaaca tcgccttcag ccttcattct cagtagttaa tgccatctgg 60
 atggaaaaca gaggaatcta ctgctgtacc gacacatacg acggaggagg tgaatatcgg 120
 cttgaaaatg gcatcgatgc gcggagacaa cagatgcagc aaaggagaaa tgatgtttga 180
 agactactct tgcctgccag ggagagtaca tgccgaaagc agaaggcgta cacatcaaaa 240
 gagatacatg gcgataatac ggaggatata acaggcggga acatgctgtg atg 293

<210> 141
 <211> 251
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(251)
 <223> probe

<400> 141
 tcctgggtccg gtcgtaatga ttccgagctc gtcagcaatt tcagtactac ggaactgaaa 60
 cttgtcagcc tcatcgggac ctattattat acctattcta cctgcagcct tattgccgga 120
 attggcctgg ataagttcgg tggcaaaaga tcgctttttg caggtgcttt aattctggga 180
 ataggctgtc tgtaatttct ttgcatctcg cttattcagg tgtgtgttgc aggaagattg 240

4 1 2 3
4 1 2 3

ttgcagggag c

251